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## PLAQUE-PREVENTION WORK.

## CALIFORNIA.

The following report of plague-prevention work in California for the week ended May 29, 1915, was received from Passed Asst. Surg. Hurley, of the United States Public Health Service, in temporary charge of the work:

*San Francisco, Cal.*

## RAT PROOFING.

## New buildings:

Inspections of work under construction.....	246
Basements concreted (square feet, 37,219).....	47
Floors concreted (square feet, 134,325).....	40
Yards, passageways, etc. (square feet, 36,262).....	84
Total area of concrete laid (square feet, 207,806).....	

## Class A, B, and C (fireproof) buildings:

Inspections made.....	220
Roof and basement ventilators, etc., screened.....	5,593
Wire screening used (square feet, 27,648).....	
Openings around pipes, etc., closed with cement.....	8,872
Sidewalk lens lights replaced.....	3,000

## Old buildings:

Inspections made.....	682
Wooden floors removed.....	77
Yards and passageways, planking removed.....	10

## RAT PROOFING—continued.

Old buildings—Continued.	
Cubic feet new foundation walls installed.....	11,837
Concrete floors installed (square feet, 69,129).....	82
Basements concreted (square feet, 25,864).....	34
Yards and passageways, etc., concreted (square feet, 19,894).....	70
Total area concrete laid (square feet, 114,887).....	
Floors rat proofed with wire cloth (square feet, 7,588).....	9
Buildings razed.....	36
New garbage cans stamped approved.....	722
Nuisances abated.....	467

## OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	19
Reinspections made on vessels.....	25
New rat guards procured.....	4
Defective rat guards repaired.....	3
Vessel on which cargo was inspected.....	1

Amount of cargo inspected and description of same.	Condition.	Rat evidence.
Steamer Admiral Schley from Seattle:		
70 cases milk and household goods.....	O. K.	None.
400 sacks flour, wheat, and bran.....	O. K.	None.
30 tubs lard.....	O. K.	None.

Rats trapped on wharves and water front.....	23
Rats trapped on vessels.....	18
Traps set on wharves and water front.....	171
Traps set on vessels.....	42
Vessels trapped on.....	10
Poisons placed on water front.....	pieces.. 3,600
Poisons placed within Panama-Pacific International Exposition grounds.....	pieces.. 7,200
Bait used on water front and vessels, bacon.....	pounds.. 6
Amount of bread used in poisoning water front.....	loaves.. 12
Pounds of poison used on water front.....	6

## RATS COLLECTED AND EXAMINED FOR PLAGUE.

Collected.....	239
Examined.....	181
Found infected.....	0

## RATS IDENTIFIED.

Mus norvegicus.....	118
Mus rattus.....	36
Mus alexandrinus.....	50
Mus musculus.....	35

*Squirrels collected and examined for plague.*

Contra Costa County.....	705
San Benito County.....	270
Alameda County.....	173
San Joaquin County.....	136
Merced County.....	96
Santa Clara County.....	66
Stanislaus County.....	60
 Total collected.....	1,512
Total examined.....	1,486
Found infected.....	0

*Ranches inspected and hunted over.*

Contra Costa County.....	53
San Benito County.....	30
Alameda County.....	31
Merced County.....	16
San Joaquin County.....	18
Stanislaus County.....	5
Santa Clara County.....	5
 Total.....	158

*Record of plague infection.*

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908...	Oct. 23, 1908...	(1)	398 rats.
Oakland.....	Aug. 9, 1911...	Dec. 1, 1908...	(1)	126 rats.
Berkeley.....	Aug. 28, 1907...	(1)	(1)	None.
Los Angeles.....	Aug. 11, 1908...	(1)	Aug. 21, 1908...	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).	Sept. 24, 1909...	Oct. 17, 1909. <sup>2</sup>	Aug. 7, 1914...	286 squirrels, 1 wood rat.
Contra Costa.....	May 17, 1914...	(1)	Mar. 4, 1915...	1,567 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911...	1 squirrel.
Merced.....	(1)	(1)	July 12, 1911...	5 squirrels.
Monterey.....	(1)	(1)	Apr. 10, 1914...	6 squirrels.
San Benito.....	June 4, 1913...	(1)	Apr. 13, 1913...	37 squirrels.
San Joaquin.....	Sept. 18, 1911...	(1)	Aug. 26, 1911...	18 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910...	1 squirrel.
Santa Clara.....	Aug. 31, 1910...	(1)	July 23, 1913...	25 squirrels.
Santa Cruz.....	(1)	(1)	May 17, 1910...	3 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911...	13 squirrels.

<sup>1</sup> None.<sup>2</sup> Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Merced, San Joaquin, Santa Cruz, Stanislaus, San Benito, Santa Clara, and San Mateo.

**LOUISIANA—NEW ORLEANS—PLAQUE ERADICATION.**

The following reports of plague-eradication work at New Orleans were received from Surg. Creel, of the United States Public Health Service, in temporary charge of the work:

WEEK ENDED MAY 29, 1915.

OUTGOING QUARANTINE.	FIELD OPERATIONS.
Vessels fumigated with sulphur.....	20
Vessels fumigated with carbon monoxide.....	12
Pounds of sulphur used.....	4,482
Coke consumed in carbon monoxide fumigation (pounds).....	20,300
Clean bills of health issued.....	41
Foul bills of health issued.....	8
	BUILDINGS RAT PROOFED.
	By elevation.....
	By marginal concrete wall.....

4,952

12,852

1,473

169

300

## BUILDINGS RAT PROOFED—continued.

By concrete floor and wall.....	385
By minor repairs.....	543
Square yards of concrete laid.....	30,944
Buildings rat proofed.....	1,397
Buildings rat proofed to date.....	37,769
Abatements.....	199
Abatements to date.....	25,050

## LABORATORY OPERATIONS.

Rodents examined.....	2,504
Mus norvegicus.....	1,868
Mus rattus.....	66
Mus alexandrinus.....	50
Mus musculus.....	2,822
Wood rats.....	62
Putrid.....	109

## WEEK ENDED JUNE 5, 1915.

## OUTGOING QUARANTINE.

Vessels fumigated with sulphur.....	20
Vessels fumigated with carbon monoxide.....	11
Vessels fumigated with hydrocyanic gas.....	1
Pounds of sulphur used.....	4,474
Pounds coke consumed in carbon-monoxide fumigation.....	17,900
Pounds of potassium cyanide used in hydrocyanic-gas fumigation.....	102 $\frac{1}{2}$
Pounds of sodium carbonate used in hydrocyanic-gas fumigation.....	120
Pounds of sulphuric acid used in hydrocyanic-gas fumigation.....	104
Clean bills of health issued.....	28
Foul bills of health issued.....	7

## FIELD OPERATIONS.

Rats trapped.....	5,657
Premises inspected.....	11,786
Notices served.....	1,046

## BUILDINGS RAT PROOFED.

By elevation.....	204
By marginal concrete wall.....	187
By concrete floor and wall.....	345
By minor repairs.....	536
Square yards of concrete laid.....	14,445
Buildings rat proofed.....	1,272

## LABORATORY OPERATIONS—continued.

Musk rats.....	83
Total rodents received at laboratory.....	4,951
Suspicious rats.....	31
Plague rats confirmed.....	0
Last case of human plague, Oct. 4, 1914.	
Last case of rodent plague, May 17, 1915.	
Rodents captured to May 29.....	355,833
Rodents examined to May 29.....	253,499

## Cases of rodent plague to May 29, by species:

Mus musculus.....	4
Mus rattus.....	16
Mus norvegicus.....	214
Mus alexandrinus.....	8
Total rodent cases to May 29, 1915.....	242

## BUILDINGS RAT PROOFED—continued.

Total buildings rat proofed to date.....	39,041
Abatements.....	149
Abatements to date.....	25,199

## LABORATORY OPERATIONS.

Rodents examined.....	2,642
Mus norvegicus.....	1,981
Mus rattus.....	81
Mus alexandrinus.....	103
Mus musculus.....	3,349
Wood rats.....	50
Putrid.....	118
Musk rats.....	53
Total rodents received at laboratory.....	5,603
Suspicious rats.....	9
Plague rats confirmed.....	0
Last case of human plague, Oct. 4, 1914.	
Last case of rodent plague, May 17, 1915.	
Rodents captured to June 5.....	361,490
Rodents examined to June 5.....	256,141

Cases of rodent plague to June 5, by species:	
Mus musculus.....	4
Mus rattus.....	16
Mus norvegicus.....	214
Mus alexandrinus.....	8
Total rodent cases to June 5, 1915.....	242

## WASHINGTON—SEATTLE—PLAQUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended May 29, 1915, was received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

## RAT PROOFING.

New buildings inspected.....	25
Basements concreted, new buildings (square feet, 4,280).....	6
Floors concreted, new buildings (square feet, 18,475).....	12
Yards, etc., concreted, new structures (square feet, 1,590).....	3
Sidewalks concreted (square feet).....	36,750
Total concrete laid, new structures (square feet).....	61,095

## RAT PROOFING—continued.

New buildings elevated.....	7
New premises rat proofed, concrete.....	18
Old buildings inspected.....	4
Premises rat proofed, concrete, old buildings.....	2
Floors concreted, old buildings (square feet, 3,275).....	2
Rat holes cemented, old buildings.....	18
Wooden floors removed, old buildings.....	2
Buildings razed.....	3

## LABORATORY AND RODENT OPERATIONS.

Dead rodents received.....	48
Rodents trapped and killed.....	350
Rodents recovered after fumigation.....	8

Total..... 403

Rodents examined for plague infection.....	288
Rodents proven plague infected.....	0
Poison distributed, pounds.....	33
Bodies examined for plague infection.....	4
Bodies found plague infected.....	0

## CLASSIFICATION OF RODENTS.

Mus ratus.....	18
Mus alexandrinus.....	63
Mus norvegicus.....	248
Mus musculus.....	77

## WATERFRONT.

Vessels inspected and histories recorded.....	6
Vessels fumigated.....	1
Sulphur used, pounds.....	900
New rat guards installed.....	5
Defective rat guards repaired.....	9
Fumigation certificates issued.....	1
Port sanitary statements issued.....	34

The usual day and night patrol was maintained to enforce rat guarding and fending.

## MISCELLANEOUS WORK.

Rat proofing notices sent to contractors.....	18
Letters sent in re: Rat complaints.....	15
Vessels inspected for medicine chests.....	3

## RODENTS EXAMINED IN EVERETT.

Mus norvegicus trapped.....	33
Mus norvegicus found dead.....	3
Mus musculus trapped.....	3

Total..... 39

Rodents examined for plague infection.....	37
Rodents proven plague infected.....	0

## RAT-PROOFING OPERATIONS IN EVERETT.

New buildings inspected.....	6
New buildings, concrete foundations.....	5
New buildings elevated 18 inches.....	1
New buildings, basements concreted (square feet 600).....	1
New buildings, floors concreted (square feet, 2,800).....	1
New buildings, yards concreted (square feet, 204).....	1
Total concrete laid, new structures (square feet).....	3,604

## HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

## Honolulu.

WEEK ENDED MAY 22, 1915.

Total rats and mongoose taken.....	435	Average number of traps set daily.....	1,085
Rats trapped.....	422	Cost per rat destroyed.....cents..	19 $\frac{1}{2}$
Mongoose trapped.....	5	Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910.	
Rats killed by sulphur dioxide.....	8	Last case human plague, Honolulu, July 12, 1910.	
Examined microscopically.....	361	Last case rat plague, Kalopa stable, Paauhau, Hawaii, Aug. 29, 1914.	
Showing plague infection.....	0	Last case human plague, Paauhau Landing, Hawaii, Aug. 17, 1914.	
Classification of rats trapped:			
Mus alexandrinus.....	229		
Mus musculus.....	131		
Mus norvegicus.....	40		
Mus ratus.....	22		
Classification of rats killed by sulphur dioxide:			
Mus alexandrinus.....	7		
Mus ratus.....	1		

## Hilo.

WEEK ENDED MAY 16, 1915.

Rats trapped.....	2,559	Classification of rats trapped and found dead—Continued.	
Rats found dead.....	1	Mus ratus.....	781
Mongoose taken.....	42	Mus musculus.....	807
Rats and mongoose examined microscopically.....	2,602	Last case of rat plague, Paauhau Sugar Co., Aug. 29, 1914.	
Rats and mongoose plague infected.....	0	Last case of human plague, Paauhau Sugar Co., Aug. 16, 1914.	
Classification of rats trapped and found dead:			
Mus norvegicus.....	616		
Mus alexandrinus.....	356		